10/622898

reby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as irst Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. on:

Feb. 27, 2006 Date:

Attorney Docket No.: 337348059US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: BRADFORD EVAN GLINER et al.

EXAMINER:

CARL LAYNO

PATENT No.:

6,959,215

ART UNIT:

3762

ISSUED:

OCTOBER 25, 2005

CONF. No.: 2827

FOR: METHODS FOR TREATING ESSENTIAL

TREMOR

Certificate MAR 0 6 2006

of Correction

Request for Certificate of Correction under 37 C.F.R. §1.322 or §1.323

Certificate of Corrections Branch Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

- 1. The applicant(s) requests a Certificate of Correction to correct errors in the above-identified patent, which are listed on the enclosed Form PTO/SB/44. In addition, the applicant respectfully provides copies of the Amendment filed on March 22, 2005, and subsequent Notice of Allowance dated June 2, 2005 that support the applicants request for a Certificate of Correction.
- 2. Any errors on the part of the applicant are of a clerical or typographical nature or are otherwise minor in character. None of the requested corrections would constitute new matter or require reexamination of the patent.
- 3. Source of Error(s) and Payment of Fee:

\boxtimes	All of the errors listed on Form PTO/SB/44 are believed to be due to
	mistake on the part of the USPTO (37 C.F.R. §1.322). Accordingly, no
	fees are believed to be due.

At least o	ne of	the	errors	occurred	due	to	applicant's	mistake	made	in
good faith	(37 C.	F.R.	. §1.32	3).						

A check covering the fee under 37 C.F.R. §1.20(a) (\$100.00) is er	nclosed
herewith.	

- Please charge the fee under 37 C.F.R. §1.20(a) to Deposit Account No. 50-0665. This paper is provided in triplicate.
- Please charge any underpayment necessary for consideration of this paper to Deposit Account No. 50-0665.
- 4. Please send the Certificate of Correction to the undersigned at the address shown below.

Date: Feb. 27,2006

John M. Wechkin

Perkins Coie LLP

Registration No. 42,216

Respectfully submitted,

Correspondence Address:

Customer No. 25096 Perkins Coie LLP P.O. Box 1247 Seattle, Washington 98111-1247 (206) 359-8000

CERTIFICATE OF CORRECTION

PATENT NO: 6,959,215

DATED: October 25, 2005

INVENTOR(S): Bradford Evan Gliner et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Front Page

"43 Claims, 9 Drawing Sheets" should be --48 Claims, 9 Drawing Sheets"--;

The following Amendments to the Claims were made in an Amendment filed March 22, 2005, and allowed by the Examiner in the Notice of Allowance dated June 2, 2005:

Please cancel claim 1 and add new claims 51-56, as amended:

- 1. (Cancelled)
- 51. (New) The method of claim 15 wherein the information includes second information and wherein applying an electrical stimulation at least proximate to a stimulation site includes applying an electrical stimulation to a stimulation site having a location based on a comparison of the second information with first information, the first information corresponding to a level of neural activity in the patient's brain while the patient does not perform the muscle action.
- 52. (New) The method of claim 15 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 53. (New) The method of claim 15 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.
- 54. (New) The method of claim 17 wherein the information includes second information and wherein applying an electrical stimulation at least proximate to a stimulation site includes applying an electrical stimulation to a stimulation site having a location based on a comparison of the second information with first information, the first information corresponding to a level of neural activity in the patient's brain while the patient does not perform the muscle action.
- 55. (New) The method of claim 17 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 56. (New) The method of claim 17 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.

MAILING ADDRESS OF SENDER:

Perkins Coie LLP PATENT-SEA PO Box 1247 Seattle, WA 98111-1247

PATENT NO. 6,959,215

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO: 6,959,215

DATED: October 25, 2005

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- 1. (Cancelled)
- 51. (New) The method of claim 15 wherein the information includes second information and wherein applying an electrical stimulation at least proximate to a stimulation site includes applying an electrical stimulation to a stimulation site having a location based on a comparison of the second information with first information, the first information corresponding to a level of neural activity in the patient's brain while the patient does not perform the muscle action.
- 52. (New) The method of claim 15 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 53. (New) The method of claim 15 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.
- 54. (New) The method of claim 17 wherein the information includes second information and wherein applying an electrical stimulation at least proximate to a stimulation site includes applying an electrical stimulation to a stimulation site having a location based on a comparison of the second information with first information, the first information corresponding to a level of neural activity in the patient's brain while the patient does not perform the muscle action.
- 55. (New) The method of claim 17 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 56. (New) The method of claim 17 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.

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PATENT NO. 6,959,215

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03-24-05

Attorney Docket No. 33734-8059US

gress Mail Label <u>EV622661894US</u>

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

E APPLICATION OF: BRADFORD EVAN GLINER ET AL.

EXAMINER: C.H. LAYNO

APPLICATION NO.:

10/622,898

ART UNIT:

FILED:

JULY 17, 2003

CONF. NO:

3762 2827

FOR: METHODS FOR TREATING ESSENTIAL

TREMOR

Amendment Under 37 C.F.R. § 1.111

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The present communication responds the Office Action dated to December 28, 2004 in the above-identified application. Please amend the application as follows:

Amendments to the Claims are reflected in the listing of claims beginning on page 2.

Amendments to the Claims:

Please cancel claim 2 without prejudice to pursuing this claim in a continuation or other application. Please add new claims 51-56. Following is a complete listing of the claims pending in the application, as amended:

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action;

- directing a computer-based routine to collect information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on the information.
- 4-5. (Cancelled)
- 6. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action;

- directing information to be collected on blood oxygen levels in the brain, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on the information.

7. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action;

- directing information to be collected, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action;
- locating a stimulation site based at least in part on the information and positioned relative to an anatomical feature of the patient; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to the stimulation site.
- 8. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action;

- directing information to be collected, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action;
- locating a stimulation site based at least in part on the information relative to a fiducial having a fixed location relative to the patient's skull; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to the stimulation site.
- 9. (Cancelled)
- 10. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action a first time;

directing first information to be collected, the first information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action the first time;

affecting the patient's motor nerves by introducing a drug into the patient's body;

- directing second information to be collected while the patient performs the muscle action a second time and while the patient is under the influence of the drug;
- directing a comparison of the first information with the second information to identify a stimulation site of the brain; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to the stimulation site.
- 11. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action;

- directing information to be collected, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
- at least reducing an essential tremor motion of the patient by administering drugs to the patient and applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on the information.
- 12. (Cancelled)
- 13. (Previously Presented) A method for treating essential tremor, comprising:

directing a patient to perform a muscle action;

- directing information to be collected, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on the information, the electrical stimulation including a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.

- 14. (Cancelled)
- 15. (Previously Presented) A method for treating essential tremor, comprising:
 - directing a patient to perform a muscle action that includes maintaining a muscle in a particular position;
 - directing information to be collected, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
 - at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on the information.
 - 16. (Cancelled)
- 17. (Previously Presented) A method for treating essential tremor, comprising:
 - obtaining first information corresponding to a level of neural activity in the patient's brain while the patient does not perform a muscle action;
 - directing a patient to perform the muscle action;
 - directing second information to be collected, the second information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
 - at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on a comparison of the second information with the first information.
- 18. (Previously Presented) A method for treating essential tremor, comprising:

directing the patient to undergo a plurality of muscle actions;

- selecting from the plurality of muscle actions a muscle action that produces a selected level of essential tremor motion;
- directing a patient to perform the muscle action to produce the selected level of essential tremor motion;
- directing information to be collected, the information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, the location of the stimulation site being based at least in part on the information.
- 19. (Original) A method for treating essential tremor, comprising: identifying a muscle action subject to essential tremor;
- monitoring a first image of the patient's brain function while the patient is not performing the muscle action;
- monitoring a second image of the patient's brain function while the patient performs the muscle action;
- comparing the first and second images to identify a stimulation site of the brain; placing at least one electrode at least proximate to the stimulation site;
- at least reducing the patient's essential tremor motion by applying an electrical stimulation at least proximate to the stimulation site.
- 20. (Original) The method of claim 19 wherein comparing the first and second images includes comparing a first image having visual characteristic with a first value at least proximate to the stimulation site with a second image having the visual characteristic with a second value different than the first value at least proximate to the stimulation site.
- 21. (Original) The method of claim 19 wherein comparing the first and second images includes comparing a first image having a first baseline region and a first activity region corresponding to increased brain activity relative to the first baseline region, with a second image having a second baseline region and a second region corresponding to

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increased brain activity relative to the second baseline region, a location of the second activity region being different than a location of the first activity region.

- 22. (Original) The method of claim 19 wherein comparing the first and second images includes comparing a first image having a first baseline region and a first activity region corresponding to increased brain activity relative to the first baseline region, with a second image having a second baseline region and a second activity region corresponding to increased brain activity relative to the second baseline region, with a brain activity level of the second activity region being different than a brain activity level of the first activity region.
- 23. (Original) The method of claim 19 wherein identifying a stimulation site includes determining a region of the patient's brain that corresponds to a portion of the image that changes at least one characteristic as the patient performs the muscle action.
- 24. (Original) The method of claim 19 wherein monitoring the first image includes monitoring a first functional MRI image, and wherein monitoring the second image includes monitoring a second functional MRI image.
- 25. (Original) The method of claim 19 wherein comparing the first and second images includes:
 - determining a first region of a first hemisphere of the patient's brain corresponding to a portion of the image that changes at least one characteristic as the patient performs the muscle action; and
 - determining the stimulation location to include a second region of a second hemisphere of the patient's brain, the second region corresponding functionally to the first region.
 - 26. (Original) A method for treating essential tremor, comprising: directing a patient to perform a muscle action;

- while the patient performs the muscle action, directing a collection of information corresponding to a level of neural activity in the patient's brain;
- directing a comparison of a first portion of the information corresponding to a level of neural activity at the left hemisphere of the patient's brain with a second portion of the information corresponding to a level of neural activity at the right hemisphere of the patient's brain; and
- at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, with a location of the stimulation site being based at least in part on the comparison of the first and second portions of the information.
- 27. (Original) The method of claim 26 wherein at least reducing an essential tremor motion includes eliminating the essential tremor motion.
- 28. (Original) The method of claim 26 wherein directing information to be collected includes directing a computer-based routine to collect the information.
- 29. (Original) The method of claim 26, further comprising directing the formation of an image of at least a portion of the patient's brain, with at least a portion of the image having features representative of the information.
- 30. (Original) The method of claim 26, further comprising implanting at least one electrode at least proximate to the stimulation site, and wherein applying an electrical stimulation includes applying an electrical signal to the at least one electrode.
- 31. (Original) The method of claim 26 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 32. (Original) The method of claim 26 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.

- 33. (Original) The method of claim 26 wherein directing the patient to perform a muscle action includes directing the patient to move the muscle.
 - 34. (Original) A method for treating essential tremor, comprising:
 - directing a patient to perform an action with a first muscle on a first side of the patient's body, the first muscle being controlled by a second hemisphere of the patient's brain;
 - while the patient performs the action with the first muscle, directing a collection of first information corresponding to a level of neural activity in the patient's brain:
 - directing the patient to perform an action with a second muscle on a second side of the patient's body, the second muscle mirroring the first muscle and being controlled by a first hemisphere of the patient's brain;
 - while the patient perform an action with the second muscle, directing a collection of second information corresponding to a level of neural activity in the patient's brain; and
 - at least reducing an essential tremor motion of the patient by applying an electrical stimulation at least proximate to a stimulation site, with a location of the stimulation site being based at least in part on a comparison of the first information with the second information.
- 35. (Original) The method of claim 34 wherein at least reducing an essential tremor motion includes eliminating the essential tremor motion.
- 36. (Original) The method of claim 34 wherein directing information to be collected includes directing a computer-based routine to collect the information.
- 37. (Original) The method of claim 34, further comprising directing the formation of an image of at least a portion of the patient's brain, with at least a portion of the image having features representative of the information.

MAR 7 LL

- 38. (Original) The method of claim 34, further comprising implanting at least one electrode at least proximate to the stimulation site, and wherein applying an electrical stimulation includes applying an electrical signal to the at least one electrode.
- 39. (Original) The method of claim 34 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 40. (Original) The method of claim 34 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.
- 41. (Original) The method of claim 34 wherein directing the patient to perform a muscle action includes directing the patient to move the muscle.
 - 42. (Original) A method for treating essential tremor, comprising: directing a collection of first information corresponding to a level of neural activity in the patient's brain while the patient performs a muscle action; affecting the patient's motor nerves by introducing a drug into the patient's body; directing a collection of second information corresponding to a level of neural activity in the patient's brain while the patient performs the muscle action and while the patient is under the influence of the drug; and
 - at least reducing the patient's essential tremor motion by applying an electrical stimulation at least proximate to a stimulation site, with a location of the stimulation site being based at least in part on the comparison of the first information with the second information.
- 43. (Original) The method of claim 42 wherein introducing a drug includes introducing ethyl alcohol.
- 44. (Original) The method of claim 42 wherein at least reducing an essential tremor motion includes eliminating the essential tremor motion.

MAR 7 -

- 45. (Original) The method of claim 42 wherein directing information to be collected includes directing a computer-based routine to collect the information.
- 46. (Original) The method of claim 42, further comprising directing the formation of an image of at least a portion of the patient's brain, with at least a portion of the image having features representative of the information.
- 47. (Original) The method of claim 42, further comprising implanting at least one electrode at least proximate to the stimulation site, and wherein applying an electrical stimulation includes applying an electrical signal to the at least one electrode.
- 48. (Original) The method of claim 42 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 49. (Original) The method of claim 42 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.
- 50. (Original) The method of claim 42 wherein directing the patient to perform a muscle action includes directing the patient to move the muscle.
- 51. (New) The method of claim 15 wherein the information includes second information and wherein applying an electrical stimulation at least proximate to a stimulation site includes applying an electrical stimulation to a stimulation site having a location based on a comparison of the second information with first information, the first information corresponding to a level of neural activity in the patient's brain while the patient does not perform the muscle action.
- 52. (New) The method of claim 15 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.

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- 53. (New) The method of claim 15 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.
- 54. (New) The method of claim 17 wherein the information includes second information and wherein applying an electrical stimulation at least proximate to a stimulation site includes applying an electrical stimulation to a stimulation site having a location based on a comparison of the second information with first information, the first information corresponding to a level of neural activity in the patient's brain while the patient does not perform the muscle action.
- 55. (New) The method of claim 17 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having a frequency of from about 5 Hz to about 200 Hz.
- 56. (New) The method of claim 17 wherein applying an electrical stimulation includes applying a varying electrical stimulation signal having an electrical potential of from about 0.25 volts to about 5.0 volts.

REMARKS

Claims 2, 3, 6-8, 10, 11, 13, 15, and 17-50 were pending in this application when the present Office Action was mailed (December 28, 2004). Claim 2 has been cancelled and claims 51-56 have been added. Accordingly, claims 3, 6-8, 10, 11, 13, 15 and 17-56 are currently pending.

In the December 28, 2004 Office Action, all the claims were allowed except claim 2 which was rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Published Application No. US2002/0091419 in light of U.S. Patent No. 6,665,562. Without commenting on or conceding the merits of this rejection, and without prejudice to pursuing claim 2 in a continuation or other application, claim 2 has been cancelled from the present application. Claims 51-56 have been added to depend from claims already indicated to be allowable.

In view of the foregoing, the pending claims comply with 35 U.S.C. § 112 and are patentable over the cited art. The applicant accordingly requests reconsideration of the application and a Notice of Allowance. If the Examiner has any questions or believes a telephone conference would expedite prosecution of this application, the Examiner is encouraged to call John M. Wechkin at (206) 359-3257.

Respectfully submitted,

Perkins Coie LLP

John M. Wechkin

Registration No. 42,216

Date: March LL LOST

Correspondence Address:

Customer No. 25096 Perkins Coie LLP P.O. Box 1247 Seattle, Washington 98111-1247 (206) 359-8000



United States Patent and Trademark Office

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EXAMINER

PAPER NUMBER

LAYNO, CARL HERNANDZ

ART UNIT 3762

DATE MAILED: 06/02/2005

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/622.898	07/17/2003	Bradford Evan Gliner	33734-8050115	2027

TITLE OF INVENTION: METHODS FOR TREATING ESSENTIAL TREMOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$0	\$700	09/02/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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(703) 746-4000 or <u>Fax</u>

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							(Date)
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10/622,898 TITLE OF INVENTIO		7/17/2003 5 FOR TREATING	G ESSENTIAL TRI		Bvan Gliner	33734-8059US	2827
APPLN. TYPE	SM	ALL ENTITY	ISSUE FI	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional		YES	\$700		\$0	\$700	09/02/2005
E	XAMINER		ART UN	IT	CLASS-SUBCLASS	7	
LAYNO, O	CARL HERNA	NDZ	3762		607-045000		
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APPLICATION NO.	E	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,898		07/17/2003	Bradford Evan Gliner	33734-8059US	2827
25096	7590	06/02/2005		EXAM	INER
PERKINS CO				LAYNO, CARL	HERNANDZ
P.O. BOX 124				ART UNIT	PAPER NUMBER
SEATTLE, W	Å 98111-1	247		3762	
				DATE MAIL ED: 06/02/2009	•

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	10/622,898	GLINER ET AL.
Notice of Allowability	Examiner	Art Unit
	Carl H. Layno 5/23/05	3762
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject to 3 and MPEP 1308.	oplication. If not included n will be mailed in due course. THIS
 This communication is responsive to <u>Paper No.03222005</u> 	•	
2. A The allowed claim(s) is/are 3.6-8,10,11,13,15 and 17-56.		
3. X The drawings filed on 17 July 2003 are accepted by the E	xaminer.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have a linternational Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No	
* Certified copies not received:	·	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	' of this communication to file a reply MENT of this application.	y complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give	nitted. Note the attached EXAMINEF ves reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ation is deficient.
6. 🔲 CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) Including changes required by the Notice of Draftsper	son's Patent Drawing Review (PTC	0-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the draw the header according to 37 CFR 1.121	ings in the front (not the back) of (d).
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application (PTO-152)
Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar	y (PTO-413),
3. No Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail Da 708), 7. 🗌 Examiner's Amend	ate dment/Comment
Paper No./Mail Date 3/22/05 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	nent of Reasons for Allowance
of Biological Material	9.	
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Application/Control Number: 10/622,898 Page 2

Art Unit: 3762

DETAILED ACTION

 Acknowledgment is made of applicant's amendment which was received by the Office on March 22, 2005.

2. Claims 1, 2, 4, 5, 9, 12, 14, and 16 are canceled. Claims 51-56 have been added. Claims 3, 6-8, 10, 11, 13, 15, and 17-56 are active.

Information Disclosure Statement

3. Acknowledgment is made of applicant's Information Disclosure Statement (PTO-1449) which was received by the Office on March 22, 2005.

Claim Rejections - 35 USC § 103

4. In view of applicant's cancellation of claim 2, the Examiner is withdrawing the 35 U.S.C 103(a) rejection of Firlik et al '419-A1 in view of Gluckman et al '562, which was made against this claim in the last Office action.

Allowable Subject Matter

5. Claims 3, 6-8, 10, 11, 13, 15, and 17-56 allowed.

Reasons for Allowance

6. The following is an examiner's statement of reasons for allowance:

Application/Control Number: 10/622,898

Art Unit: 3762

The applicant's independent claims recite details of methods for treating essential tremor in a patient comprising among other steps an initial step of "directing a patient to perform a muscle action" not found in any of the prior art references of record. Although it is well known in the prior art to treat essential tremor in a patient by the use of electrical stimulation of motor nerves (e.g. Cohen et al "415-A1, cited herein) or portions of the brain which are responsible for motor skills (e.g. transcranial direct current stimulation – tDCS), it is neither shown nor taught in the prior art to "direct" a patient to perform a muscle action in order to glean information useful in controlling electrical stimulation. The prior references appear to invoke muscle movements by pre-stimulation rather than by asking, or directing, a patient to move a muscle (e.g. Cohen et al "415-A1 – paragraph [0034]). Lacking any specific teachings that perform this step, the

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner deems claims 3, 6-8, 10, 11, 13, 15, and 17-56 to be allowed.

CARL LAYNO
PRIMARY EXAMINER

Cal N. Lagro

CHL 5/23/2005

Page 3



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0851-0031
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Sheet	1	of	1	Attorney Docket Number	337348059US		

			U.S. PA	TENT DOCUMENTS	CLISUB.
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	No.'	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear
CHZ		US-5,314,458		KHALIL NAJAFI	607/116
CHI		US-6,221,908	04-24-2001	MICHAEL P. KILGARD	514/546
CAL		US-6,405,079	06-11-2002	Mehdi Ansarinia	107/2
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Cttz		DEUSCHL, Gunther, "Essential Tremor," orphanet, December 2003, 4 pgs; http://www.orpha.net/data/patho/GB/uk-essentialtremor.pdf	
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*EXAMINER: Initial if reference considered, whether or not cliation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached.

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